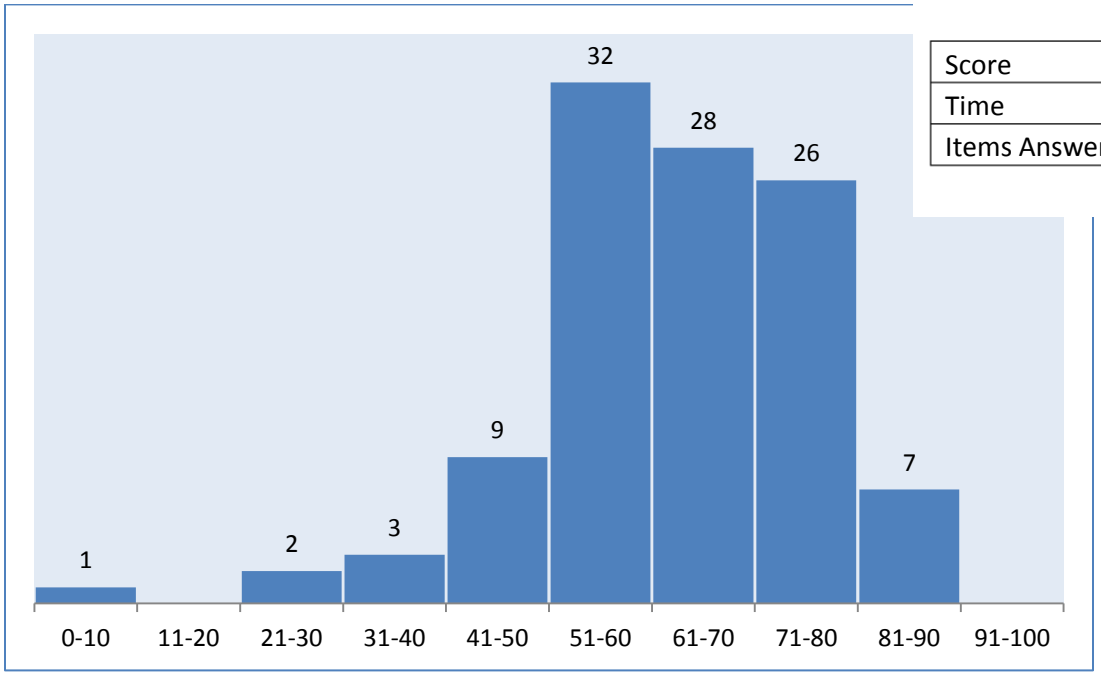
11-12 State Results

AgMET Equipment Fabrication Systems

108 Participants



	Min	Max	Mean
Score	1	87	61.45
Time	00:04:07	1:00:00	00:30:00
Items Answered	3	100	98.9

Average Score: 61
Cut Score: 60
Pass percentage: 58%

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Content Standards, Performance Standards, Indicators	NV State Averages
1) CONTENT STANDARD 1.0 : DEMONSTRATE GENERAL SHOP SAFETY PROCEDURES	87.19%
1) PERFORMANCE STANDARD 1.1: UNDERSTAND PERSONAL AND GROUP SAFETY	87.19%
1) 1.1.1 Demonstrate personal safety precautions in an agricultural mechanics environment	91.05%
2) 1.1.2 Describe group safety precautions in an agricultural mechanics environment, including lock out/tag out procedures	77.78%
3) 1.1.3 Identify safe and unsafe working conditions in the agricultural mechanics environment	84.26%
7) 1.1.7 Demonstrate appropriate fire extinguisher use	87.96%
2) CONTENT STANDARD 2.0 : DEMONSTRATE SAFE AND PROPER WELDING PROCEDURES	61.35%
2) PERFORMANCE STANDARD 2.1: DEMONSTRATE SAFE AND PROPER TECHNIQUES IN OXY/FUEL CUTTING (OFC)	72.22%
1) 2.1.1 Demonstrate proper safety practices while operating all welding and cutting equipment	75.93%
3) 2.1.3 Properly assemble oxy/fuel apparatus	78.89%
5) 2.1.5 Properly cut mild steel to specification	31.48%
3) PERFORMANCE STANDARD 2.2: DEMONSTRATE SAFE AND PROPER TECHNIQUES IN SHIELDED METAL ARC WELDING (SMAW)	73.11%
1) 2.2.1 Demonstrate proper safety practices while operating SMAW equipment	89.51%
2) 2.2.2 Select appropriate electrodes for specific applications	69.29%
3) 2.2.3 Properly adjust SMAW apparatus	67.28%
5) 2.2.5 Produce three AWS standard welds in the flat and horizontal position	74.47%
6) 2.2.6 Identify welding electrodes using AWS electrode classification system	62.04%
7) 2.2.7 Determine the correct shade of lens used for a given application and type of welding process	69.44%
4) PERFORMANCE STANDARD 2.3: DEMONSTRATE SAFE AND PROPER TECHNIQUES IN GAS METAL ARC WELDING (GMAW)	48.52%
2) 2.3.2 Select appropriate electrodes, contact tips, gas nozzles and diffusers, and shielding gas for specific applications	59.26%
3) 2.3.3 Properly adjust GMAW apparatus for specific application	41.44%
5) 2.3.5 Produce three AWS standard welds in the flat and horizontal position	47.22%
5) PERFORMANCE STANDARD 2.4: DEMONSTRATE SAFE AND PROPER TECHNIQUES IN GAS TUNGSTEN ARC WELDING (GTAW)	51.39%
2) 2.4.2 Select appropriate consumables and shielding gas for specific applications	39.81%
3) 2.4.3 Properly adjust GTAW apparatus for specific application	49.54%
4) 2.4.4 Properly diagnose equipment failure	48.15%
5) 2.4.5 Produce three AWS standard welds in the flat and horizontal position on ferrous metals	72.22%
6) Performance Standard 2.5 : Demonstrate Safe and Proper Techniques in Plasma Cutting (PAC) Procedures	41.67%
1) 2.5.1 Demonstrate proper safety practices while operating plasma cutting equipment	63.89%
2) 2.5.2 Select appropriate consumables for specific applications	37.50%
3) 2.5.3 Properly assemble plasma cutting apparatus	25.00%
4) 2.5.4 Properly diagnose equipment failure	73.15%
5) 2.5.5 Properly cut ferrous metals	29.63%
3) CONTENT STANDARD 3.0: UNDERSTAND THE PRINCIPLES OF ELECTRICITY IN AGRICULTURE	46.11%
1) PERFORMANCE STANDARD 3.1: UNDERSTAND PRINCIPLES AND THEORIES OF ELECTRICITY	41.20%
1) 3.1.1 Describe proper safety practices applicable to agricultural electrification	88.89%
3) 3.1.3 Calculate voltage, current, and resistance using Ohmâ€™s Law	25.31%
2) PERFORMANCE STANDARD 3.2: APPLY THE PRINCIPLES AND THEORIES OF ELECTRICAL CIRCUITS	65.74%
3) 3.2.3 Explain the function and importance of grounding in electrical circuits	65.74%
4) CONTENT STANDARD 4.0: UNDERSTAND WATER AND WASTEWATER MANAGEMENT IN AGRICULTURAL AND INDUSTRIAL SETTINGS	17.59%
1) PERFORMANCE STANDARD 4.1: DEMONSTRATE SAFE PRACTICES AND PROCEDURES IN AGRICULTURAL AND INDUSTRIAL WATER MANAGEMENT	17.59%
1) 4.1.1 Explain the role of water use, management and conservation in the agricultural industry	17.59%
5) CONTENT STANDARD 5.0: UNDERSTAND PRINCIPLES AND APPLICATIONS IN AGRICULTURAL	69.14%
1) PERFORMANCE STANDARD 5.1: DEMONSTRATE PRACTICES, APPLICATIONS AND PROCEDURES OF DRAFTING IN AGRICULTURAL PROJECTS	65.28%
1) 5.1.1 Differentiate between the various plans used in projects (blueprints, shop plans and wiring schematics)	68.52%
3) 5.1.3 Develop a bill of materials from a selected set of plans	62.04%
2) PERFORMANCE STANDARD 5.2: DEMONSTRATE PRACTICES AND PROCEDURES IN CONSTRUCTION OF AGRICULTURAL PROJECTS	76.85%
1) 5.2.1 Explain safety procedures required while working on a project site, including personal safety, hand and power tools and equipment	76.85%
6) CONTENT STANDARD 6.0: UNDERSTAND PRINCIPLES AND APPLICATIONS OF SINGLE AND MULTIPLE CYLINDER ENGINES	68.70%

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2) PERFORMANCE STANDARD 6.2: DEMONSTRATE A WORKING KNOWLEDGE OF THE ESSENTIAL ENGINE OPERATING SYSTEMS	68.70%
2) 6.2.2 Explain functions of ignition, fuel, cooling, lubrication and compression systems and their interrelationships	68.70%
7) CONTENT STANDARD 7.0: DEMONSTRATE BASIC SKILLS IN OPERATION, MAINTENANCE AND REPAIR OF AGRICULTURAL MACHINERY	66.48%
1) PERFORMANCE STANDARD 7.1: DEMONSTRATE SAFE PRACTICES AND PROCEDURES ASSOCIATED WITH THE OPERATION, MAINTENANCE AND REPAIR OF AGRICULTURAL MACHINERY AND EQUIPMENT	66.48%
3) 7.1.3 Explain the importance of preventive maintenance programs and keeping accurate maintenance records	49.07%
4) 7.1.4 Prepare an applicable piece of equipment for storage	62.04%
5) 7.1.5 Determine the cost of routine equipment maintenance	75.93%
7) 7.1.7 Perform manufacturers recommended pre-operation safety inspection	72.69%
8) CONTENT STANDARD 8.0: IDENTIFY AND DEMONSTRATE THE PROPER USE OF AGRICULTURAL HAND AND POWER TOOLS	57.41%
1) PERFORMANCE STANDARD 8.1: IDENTIFY GENERAL SHOP HAND AND POWER TOOLS	36.42%
1) 8.1.1 Identify and explain the safe and proper use of shop hand and power tools	36.42%
2) PERFORMANCE STANDARD 8.2: DEMONSTRATE APPROPRIATE PROCEDURES FOR THE MAINTENANCE AND REPAIR OF HAND TOOLS	78.40%
1) 8.2.1 Determine if the tool can be safely used in its present condition or, if damaged, reconditioned/replaced	64.81%
2) 8.2.2 Demonstrate proper care and storage of tools	92.59%
3) 8.2.3 Repair a damaged tool to a safe working condition	77.78%
9) CONTENT STANDARD 9.0: DEMONSTRATE THE OPERATION, MAINTENANCE AND USE OF ELECTRICAL POWER, MOTORS AND CONTROLS IN AGRICULTURAL APPLICATIONS	56.11%
1) PERFORMANCE STANDARD 9.1: DEMONSTRATE PROCEDURES ASSOCIATED WITH THE OPERATION, MAINTENANCE AND REPAIR OF ELECTRICAL POWER	56.11%
1) 9.1.1 Recognize possible safety hazards while working with electric motors and controls	29.63%
2) 9.1.2 Select and properly use safety equipment appropriate to working conditions	37.96%
3) 9.1.3 Explain the function of various controls used in electrical applications	86.11%
4) 9.1.4 Demonstrate a working knowledge of repair manuals and parts manuals	67.59%
5) 9.1.5 Diagnose and repair common failures relating to electrical motors and controls	59.26%
10) CONTENT STANDARD 10.0: DESCRIBE THE RELATIONSHIP BETWEEN A SUPERVISED AGRICULTURAL EXPERIENCE (SAE) AND PREPARATION OF STUDENTS FOR A CAREER IN AGRICULTURE	60.19%
1) PERFORMANCE STANDARD 10.1: ACTIVELY DEVELOP AND PARTICIPATE IN SUPERVISED AGRICULTURAL EXPERIENCE, WHICH ENABLES STUDENTS TO OBTAIN WORK-BASED SKILLS	60.19%
1) 10.1.1 Identify and describe a career interest in agriculture or agriculture related occupation	85.19%
3) 10.1.3 Keep accurate records as prescribed by the Nevada State FFA policies and procedures	53.94%
11) CONTENT STANDARD 11.0: PARTICIPATE IN LEADERSHIP TRAINING THROUGH MEMBERSHIP IN FFA	47.69%
1) PERFORMANCE STANDARD 11.1: RECOGNIZE THE TRAITS OF EFFECTIVE LEADERS AND PARTICIPATE IN LEADERSHIP TRAINING THROUGH INVOLVEMENT IN FFA	61.11%
4) 11.1.4 Demonstrate knowledge of the FFA Code of Ethics, official dress, and the proper use of the FFA jacket	61.11%
2) PERFORMANCE STANDARD 11.2: UNDERSTAND THE OPPORTUNITIES IN FFA	31.48%
2) 11.2.2 Identify major state and national activities and awards available to FFA members	31.48%
3) PERFORMANCE STANDARD 11.3: UNDERSTAND THE IMPORTANCE OF SCHOOL AND COMMUNITY AWARENESS	66.67%
1) 11.3.1 Discuss the meaning and importance of community service	66.67%